CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/BRD/W.No.08/CSR-09/140d/CEMENT/2016-17 Date: 12.09.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*AGENCY		**Mr. B.R. Dhananjaya,** Nagashettyhalli, Bangalore – 94.
*NAME OF THE WORK	:	Maintenance of Govt. School buildings and other buildings in Ward No.08, Kodigehalli Sub Division (1st Call), BBMP, Bangalore.
REFERENCE		EE/BTP/BBMP/E-PMT/597/2013-14 Dated: 05.03.2014
SAMPLE ID	:	Cement – Sample 1
SAMPLE RECEIVED ON	:	10.09.2016
PERIOD OF TESTING	:	10.09.2016 to 12.09.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Chief Executive Officer

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Job No.: CTCE/BBMP/BRD/W.No.08/CSR-09/140d/SAND-Gradation/2016-17 : 12.09.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.R. Dhananjaya,**
Nagashettyhalli, Bangalore – 94.

*** Name of Work** : Maintenance of Govt. School buildings and other buildings in Ward No.08, Kodigehalli Sub Division (1st Call), BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/597/2013-14 Dated: 05.03.2014

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates – Sample 1

Sample Received on : 10.09.2016

Date of Testing : 12.09.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.80	90-100	90-100	90-100	95-100
2.36	75.30	60-95	75-100	85-100	95-100
1.18	53.90	30-70	55-90	75-100	90-100
600 Micron	26.30	15-34	35-59	60-79	80-100
300 Micron	10.00	5-20	8-30	12-40	15-50
150 Micron	3.80	0-10	0-10	0-10	0-15

A&B

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/BRD/W.No.08/CSR-09/140d/AGG/GR/2016-17 : 12.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.R. Dhananjaya,**
Nagashettyhalli, Bangalore – 94.

*** Name of Work** : Maintenance of Govt. School buildings and other buildings in Ward No.08, Kodigehalli Sub Division (1st Call), BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/597/2013-14 Dated: 05.03.2014

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) – Sample 1

Sample Received on : 10.09.2016

Date of Testing : 12.09.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.30	95-100	85-100
20	35.30	30-70	0-20
10	12.80	10-35	0-5
4.75	3.30	0-5	-

A&B

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/BRD/W.No.08/CSR-09/140d/Bricks/2016-17 : 12.09.2016

TEST REPORT ON BRICKS

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.R. Dhananjaya,**
Nagashettyhalli, Bangalore – 94.

*** Name of the work** : Maintenance of Govt. School buildings and other buildings in Ward No.08, Kodigehalli Sub Division (1st Call), BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/597/2013-14 Dated: 05.03.2014

Sample ID/Type of test : Bricks / Compressive Strength of Bricks

Technical Reference : IS: 3495(Part-1)- 1992 (RA-2007)

Sample Received on : 10.09.2016

Date of Testing : 12.09.2016

Sl.No.	Size of Bricks are in mm	Weight of Bricks in gms	Failure load in KN	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)	Class Designation (As per IS: 1077:1992 Table 1)
1	220x100x75	3438.00	137.2	6.24	5.79	5.0
2	220x100x75	3415.00	128.4	5.84		
3	220x100x75	3527.00	126.3	5.74		
4	220x100x75	3492.00	114.2	5.19		
5	220x100x75	3456.00	130.5	5.93		

AE-B

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Comp. B.B.M.P., Bangalore.

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Job No.: CTCE/BBMP/BRD/W.No.08/CSR-09/140d/Bricks/2016-17 : 12.09.2016

TEST REPORT ON BRICKS

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. B.R. Dhananjaya,**
Nagashettyhalli, Bangalore – 94.

*** Name of the work** : Maintenance of Govt. School buildings and other buildings in Ward No.08, Kodigehalli Sub Division (1st Call), BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/597/2013-14 Dated: 05.03.2014

Sample ID/Type of Test : Bricks / Water Absorption of Bricks

Technical Reference : IS: 3495(Part-2)- 1992 (RA-2007)

Sample Received on : 10.09.2016

Date of Testing : 12.09.2016

AE-B

Asst Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Sl.No.	Size of Bricks in mm	Dry weight in gms	Wet weight in gms	Water Abosorption in %	Average Water Absorption in %	Allowable Water absorbtion as per IS: 1077:1992 Clause 7.2)
1	220x100x75	2965	3296	11.16	11.03	Not exceeding 20%
2	220x100x75	2952	3285	11.28		
3	220x100x75	2947	3284	11.44		
4	220x100x75	2963	3293	11.14		
5	220x100x75	2985	3287	10.12		

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